

******* NOTE TO DESIGNER: This section is applicable for projects with one or more of the following conditions:**

Disturbance of 3/4 acre or more surface area where activity will result in particulate matter becoming airborne or transported off-site.

Disturbance of paved surface exceeding 3/4 acre by grinding, milling, or other alteration.

Demolition of building containing over 10,000 SF.

Pressure blasting using sand or other abrasive.

CONSTRUCTION STANDARD SPECIFICATION

SECTION 01563

DUST CONTROL

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CONSTRUCTION STANDARD SPECIFICATION

SECTION 01563

DUST CONTROL

PART 1 - GENERAL

1.01 SUMMARY

- A. Section includes: Requirements, methods, and materials for controlling dust and other particulate matter resulting from surface disturbance activities, pressure blasting, and demolition.
 - 1. Disturbance of ground surface where activity will result in particulate matter becoming airborne or transported off-site: Surfaces exceeding 3/4 acre.
 - 2. Disturbance of paved surface by grinding, milling, or other alteration: Surfaces exceeding 3/4 acre.
 - 3. Demolition of building: Area over 10,000 SF.
 - 4. Pressure blasting using sand or other abrasive.
- B. Related sections:
 - 1. Section 02222, "Selective Demolition": Demolition and removal activities to be coordinated with work of this Section
 - 2. Section 02200, "Earthwork": Clearing, grubbing, excavation, rough grading, and other surface disturbing activities to be coordinated with work of this Section.

1.02 REFERENCES

- A. New Mexico Administrative Code (NMAC) - 20 NMAC 11.20:
 - 1. Title 20 - Environmental Protection.

2. Chapter 11 - Albuquerque/Bernalillo County Air Quality Control Board (AQCB).
3. Part 20 - Airborne Particulate Matter.

1.03 DEFINITIONS

- A. Palliative: Agent applied to disturbed soil to mitigate and control dust.
- B. Surface disturbance: Disturbance of ground, soil, or paved surface from its pre-existing conditions.
- C. Transported material: Particulate matter moved off-site by wind, water erosion, truck spillage, and tracking by vehicles.

1.04 SUBMITTALS

- A. Provide in accordance with Section 01330, "Submittal Procedures":
 1. Description and data for palliatives and other dust control materials.
 2. Two copies of approved Surface Disturbance/Demolition Permit required by Paragraph 1.05.A.1. for SDR and for SNL Environmental and Emergency Management Department, Surface Disturbance Permit Oversight Program.
 3. Particulate Matter Control Plan required by Paragraph 1.05.A.2 for review, approval, and signature by SDR.

1.05 QUALITY ASSURANCE

- A. Regulatory Requirements
 1. Prior to commencing Work, obtain Surface Disturbance/Demolition Permit from Albuquerque Environmental Health Department, Air Pollution Control Division.
 2. Particulate Matter Control Plan: Prepare as part of permit application to establish reasonable precautions for preventing transported material or particulate matter from becoming airborne.
 - a. Comply with requirements of 20 NMAC 11.20.
 - b. Comply with special requirements of Albuquerque Air Pollution Control Division.
 - c. Obtain approval and signature of SDR for Particulate Matter Control Plan.

- d. Large area disturbance: If surface area to be disturbed at one time exceeds 15 acres, include justification and rationale in Particulate Matter Control Plan.
 - e. Coordinate time for obtaining required permits and approvals with Project schedule. Assume responsibility for delays caused by resubmittal and revocation of permits for non-compliance.
- B. Dust palliative: Prior to submittal of Surface Disturbance/Demolition Permit application to SDR for approval, apply proposed dust palliative to test strip at job site. Demonstrate to SDR suitability of palliative to control dust.

PART 2 - PRODUCTS

2.01 DUST CONTROL PALLIATIVES

- A. Acceptable types:
- 1. Resinous petroleum based emulsion not harmful to plants; Coherex as manufactured by Witco.
 - 2. Penetration emulsion prime coat based on 38 percent minimum AC-5 asphalt cement: PEP as manufactured by Southwest Emulsions.
 - 3. Prime dust oil emulsion based on 50 percent minimum AC-10 asphalt cement; PDOK as manufactured by Chevron USA.
 - 4. Other type agent to mitigate dust as approved by SDR.
- B. Formulation, dilution, and application rate: As recommended by manufacturer for specific soils at Project site.

PART 3 - EXECUTION

3.01 DUST CONTROL

- A. Implement approved Particulate Matter Control Plan specified in Paragraph 1.05.A.2. Coordinate with work of Section 02200, "Earthwork" and Section 02222, "Selective Demolition".

- B. Use method or combination of methods listed below and approved by SDR to prevent particulate matter from becoming airborne and being transported off-site:
1. Phasing: Only disturb areas less than one acre at one time. Begin construction activities at west side of site and proceed to east to provide buffer area where shifting soil can be arrested.
 2. Schedule: Delay earthwork and other activities generating particulate matter until wind velocity is 20 MPH maximum.
 3. Restricting vehicles: Use signs and other traffic controls to limit speed and access of job site vehicles. Limit speed to 10 MPH maximum. Restrict vehicle traffic in dust stabilized areas.
 4. Excavated material: Keep out of active traffic lanes. Immediately remove excavated material deposited in roadways by erosion or spillage. Cover loads transported in earth-moving equipment.
 5. Watering: Use sprinkler system or water truck with spray boom to water disturbed area daily and at intervals required to adequately control dust.
 6. Windbreaks: Erect snow fences or similar windbreaks upwind and within disturbed areas. Place fences perpendicular to prevailing winds.
 7. Palliatives: Apply dust palliative to stabilize soils after earthwork is completed and to sandy soils where watering is ineffective. Do not use palliative detrimental to vegetation in areas of future plant landscaping.
 8. Other methods that substantially and effectively reduce transported material or emission of particulate matter into atmosphere.

END OF SECTION